



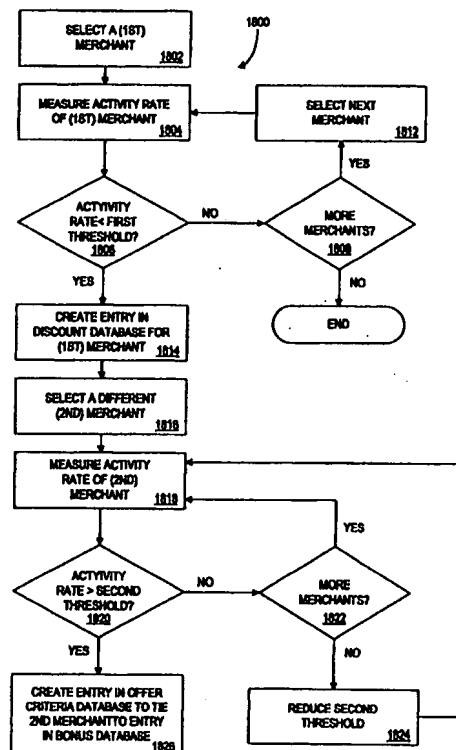
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(54) Title: METHOD AND APPARATUS FOR DEFINING ROUTING OF CUSTOMERS BETWEEN MERCHANTS

(57) Abstract

A server or Internet service provider computer selects a soliciting merchant and an outputting merchant based on various factors. In one embodiment, the soliciting merchant is selected if its activity rate (e.g. sales rate) is low. The outputting merchant provides offers for bonuses to customers on behalf of the soliciting merchant. The bonus is provided to the customer in exchange for consummating a transaction with the soliciting merchant. Thus, the soliciting merchant benefits from the increased patronage such offers encourage.



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**METHOD AND APPARATUS FOR DEFINING ROUTING OF CUSTOMERS
BETWEEN MERCHANTS**

CROSS-REFERENCE TO RELATED APPLICATIONS

5 This application is related to co-pending United States patent application
Serial No. 09/098,240 entitled "SYSTEM AND METHOD FOR APPLYING AND
TRACKING A CONDITIONAL VALUE COUPON FOR A RETAIL
ESTABLISHMENT" filed on June 16, 1998 in the name of Jay S. Walker and Andrew S.
Van Luchene; and is further related to co-pending United States patent application Serial
10 No. 09/166367 entitled "METHOD AND APPARATUS FOR PROVIDING A
DISCOUNT TO A CUSTOMER THAT PARTICIPATES IN TRANSACTIONS AT A
PLURALITY OF MERCHANTS" filed on October 5, 1998 in the name of Jay S. Walker,
Andrew S. Van Luchene, Magdalena Mik and Daniel E. Tedesco (Attorney Docket No.
WD2-98-042); and is further related to co-pending United States patent application Ser.
15 No. 09/166339 entitled "METHOD AND APPARATUS FOR MAINTAINING A
CUSTOMER DATABASE USING LICENSE PLATE SCANNING" filed on October 5,
1998 in the name of Jay S. Walker, Joshua D. Rogers and Andrew S. Van Luchene
(Attorney Docket No. WD2-98-059), each of which is assigned to the assignee of the
present application and each of which is incorporated by reference herein as part of the
20 present disclosure.

FIELD OF THE INVENTION

The present invention relates to methods and apparatus for providing discounts.

5 BACKGROUND OF THE INVENTION

Merchants rarely experience consistent levels of sales. It is more typical that a merchant will experience periods of low sales activity interspersed with brief periods of high sales activity. Inconsistent sales activity, such as during cyclic or seasonal periods, makes it difficult for merchants to make inventory and pricing decisions. Merchants
10 would like to entice customers to visit the business, particularly during periods of low sales activity. Merchants would particularly like to entice each customer to participate in transactions, such as purchases or simply visiting the store, more frequently.

It is difficult for a merchant to respond quickly to changing conditions. For example, if sales activity is low in the morning, the merchant cannot successfully advertise
15 in time to attract customers that same morning. Since the merchant typically cannot know precisely when it will need customers (i.e. "slow days") and when customers will be in abundance, attracting customers at optimal times is difficult or impossible.

It would be advantageous to provide a method and apparatus that allowed a business to more effectively attract customers at desirable times.

20

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method and apparatus for more effectively attracting customers at desirable times.

In accordance with the present invention, a server or Internet service
5 provider computer selects a soliciting merchant and an outputting merchant based on various factors. In one embodiment, the soliciting merchant is selected if its activity rate (e.g. sales rate) is low. The outputting merchant provides offers for bonuses to customers on behalf of the soliciting merchant. The bonus is provided to the customer in exchange for consummating a transaction with the soliciting merchant. Thus, the soliciting merchant
10 benefits from the increased patronage such offers encourage.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic illustration of an apparatus provided in accordance with the present invention.

15 FIG. 2 is a schematic illustration of another embodiment of an apparatus provided in accordance with the present invention.

FIG. 3 is a schematic illustration of an Internet service provider of the apparatus of FIG. 1.

FIG. 4 is a schematic illustration of a merchant web server of the apparatus
20 of FIG. 1.

FIG. 5 is a schematic illustration of a POS terminal of the apparatus of FIG. 1.

FIG. 6 is a schematic illustration of an embodiment of a merchant database of the Internet service provider of FIG. 3.

FIG. 7 is a schematic illustration of a record of another embodiment of a merchant database of the Internet service provider of FIG. 3.

5 FIG. 8 is a schematic illustration of an embodiment of an offer criteria database of the Internet service provider of FIG. 3.

FIG. 9 is a schematic illustration of an embodiment of a priority database of the Internet service provider of FIG. 3.

10 FIG. 10 is a schematic illustration of a record of an embodiment of a bonus database of the Internet service provider of FIG. 3.

FIG. 11 is a schematic illustration of a record of an embodiment of a bonus database of the Internet service provider of FIG. 3.

FIG. 12 is a schematic illustration of an embodiment of an offer database of the Internet service provider of FIG. 3.

15 FIG. 13 is a schematic illustration of an embodiment of an offer summary database of the Internet service provider of FIG. 3.

FIG. 14 is a schematic illustration of an embodiment of an inventory database of the POS terminal of FIG. 3.

20 FIG. 15 is a schematic illustration of a record of an embodiment of a customer database of the POS terminal of FIG. 3.

FIG. 16A and 16B are a flow chart illustrating an embodiment of a method provided in accordance with the present invention.

FIG. 17A and 17B are a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

FIG. 18 is a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

5 FIG. 19A and 19B are a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

FIG. 20 is a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

10 FIG. 21 is a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

FIG. 22 is a flow chart illustrating another embodiment of a method provided in accordance with the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

15 In accordance with the present invention, a soliciting merchant may direct ("route") customers from other merchants to participate in transactions (e.g. purchases) with the soliciting merchant. In one embodiment, during periods of low activity the soliciting merchant may direct customers from other merchants by directing the merchants, known as "outputting merchants", to provide offers for bonuses to the customers on behalf
20 of the soliciting merchant. The bonus is generally a discount such as a reduced purchase price or credit to a credit card account.

The offer may define conditions that the customer must meet in order to receive the bonus. The customer may meet the conditions while participating in a second transaction with the soliciting merchant. For example, the customer may be required to spend at least a minimum purchase price at the second merchant on a particular day. Once
5 the conditions are satisfied, the bonus is awarded to the customer. In one embodiment, the bonus is applied by crediting a credit card account used during the first and/or second transaction.

The present invention is particularly advantageous in that it allows various merchants to participate in mutually beneficial "co-branding" opportunities. The present
10 invention may be employed in an embodiment where the customer conducts transactions remotely via a personal computer or similar device for communicating remotely with a store controller. For example, a customer may use his computer to access the World Wide Web sites of merchants, indicate purchases, and pay by transmitting a credit card number to the merchants.

15 Referring to FIG. 1, an apparatus 100 includes a user computer 110 that is in communication with an Internet service provider computer 120. The user computer 110 is typically a personal computer operated by the customer and equipped to access the Internet or other electronic network. The Internet service provider computer 120 is a
20 computer that enables the user computer 110 to access the Internet in a manner known in the art. Accordingly, the Internet service provider computer 120 may be of the type controlled and/or operated by America Online, Prodigy, or Microsoft for offering Internet connectivity and content to users.

The Internet service provider computer 120 is in turn in communication through the Internet with a merchant web servers 130, 140 and 150 in a manner known in the art. As is also known in the art, the merchant web servers 130, 140 and 150 may control "web sites" that may be accessed by the user computer 110 upon entering
5 appropriate commands. Although three merchant web servers are shown in FIG. 1, any number of merchant web servers may be in communication with the Internet service provider computer 120 without departing from the spirit and scope of the present invention.

The Internet service provider computer 120 may perform many of the
10 processes described below as performed by a merchant web server, especially those processes that are performed for more than one merchant web server. The Internet service provider computer 120 may also store data that is used by more than one merchant web server.

The present invention may also be advantageously employed in an
15 embodiment where the customer conducts transactions at physical stores, such as stores in a mall. Similarly, the customer may conduct transactions by communicating via a telephone with catalog merchants, such as Land's End.

Referring to FIG. 2, an apparatus 200 includes a server 210 that is in communication with store controllers 220, 230 and 240 by means of a network such as
20 Microsoft First Datacorp ("MSFDC"). The server 210 directs the operation of, stores data from, and transmits data to the store controllers 220, 230 and 240. The server 210 is a computing device that can communicate with one or more store controllers. The server

210 may be a computer that is owned and/or operated by a credit card clearinghouse such as First Data Corporation.

Although three store controllers are shown in FIG. 2, any number of store controllers may be in communication with the server 210 without departing from the spirit and scope of the present invention. The store controllers 220, 230 and 240 are typically located in different stores, such as in different stores of a mall. Similarly, the store controllers 220, 230 and 240 may each control different catalog merchants. The store controllers may also be computers that direct an "online store", such as a web server that receives and processes orders for goods. In such an embodiment, each store controller would be equivalent to a merchant web server depicted in FIG. 1. Similarly, in such an embodiment the server 210 would be equivalent to the Internet service provider 120 depicted in FIG. 1.

The server 210 may perform many of the processes described below as performed by a store controller, especially those processes that are performed for more than one store controller. The server 210 may also store data that is used by more than one store controller.

Each store controller is in communication with one or more POS terminals. Specifically, the store controller 220 is in communication with POS terminals 245 and 250, the store controller 230 is in communication with a POS terminal 255 and the store controller 240 is in communication with POS terminals 260 and 265. The POS terminals may be, for example, the NCR 7454 manufactured by NCR Corporation or the IBM 4683 manufactured by International Business Machines. Each store controller directs the

operation of, stores data from, and transmits data to the POS terminal(s) with which it is in communication. For example, as described below, each store controller may store a database of inventory to indicate to the POS terminals the prices of items purchased.

Referring to FIG. 3, reference numeral 300 indicates a more detailed illustration of the server 210 (FIG. 2) or, in another embodiment, of the Internet service provider 120 (FIG. 1). A processor 302 that comprises one or more conventional microprocessors such as the Intel® Pentium® microprocessor is in communication with a data storage device 304, such as an appropriate combination of magnetic, optical and/or semiconductor memory. The processor 302 and the storage device 304 may each be (i) located entirely within a single computer or other computing device; (ii) connected to each other by a remote communication medium, such as a serial port cable, telephone line or radio frequency transceiver; or (iii) a combination thereof. For example, reference numeral 300 may represent one or more computers that are connected to a remote computer for maintaining databases.

The processor 302 is also in communication with an input device 306, a printer 308 and a display device 310. The input device 306 may comprise a keypad for transmitting input signals to the processor 302. Other types of input devices are known to those skilled in the art. The printer 308 is for registering indicia on paper or other material. The display device 310 is operative to display at least alphanumeric characters, and thus may be any of a number of known video monitors, liquid crystal displays ("LCD") or light emitting diode ("LED") displays. Many types of input devices and display devices are known to those skilled in the art, and need not be described in detail herein.

The storage device 304 stores a control program 320 for controlling the processor 302. The processor 302 performs instructions of the control program 320 and thereby operates in accordance with the present invention and particularly in accordance with the methods described in detail herein. The control program 320 furthermore
5 includes program elements that may be necessary, such as an operating system and "device drivers" for allowing the processor 302 to interface with computer peripheral devices, such as the input device 306, the printer 308 and the display device 310. Appropriate device drivers and other necessary program elements are known to those skilled in the art and need not be described in detail herein.

10 The storage device 304 also stores (i) a merchant database 322, (ii) an offer criteria database 324, (iii) a priority database 326, (iv) a bonus database 328, (v) an offer database 330, and (vi) an offer summary database 332. In addition, other devices (e.g. the store controllers of FIG. 2 or the merchant web servers of FIG. 1) may obtain information from the databases stored by the storage device 304. As will be understood by those
15 skilled in the art, the schematic illustrations and accompanying descriptions of the databases presented herein are exemplary arrangements for stored representations of information. A number of other arrangements may be employed besides the tables shown. Similarly, the illustrated entries represent exemplary information, but those skilled in the art will understand that the number and content of the entries can be different from those
20 illustrated herein.

In various embodiments, any or all of the above-described databases could be stored (i) on the computer of an Internet service provider ("ISP"), (ii) on another

computer on the Internet, or (iii) locally on the consumer's computer (e.g. in the browser software or in a "cookie" or other file). In other embodiments, any or all of the above-described databases could be stored by POS terminals.

Referring to FIG. 4, a store controller 400 is descriptive of any or all of (i)
5 the store controllers 220, 230 and 240 (FIG. 2), as well as (ii) the merchant web servers 130, 140 and 150. The store controller 400 includes a processor 402 that comprises one or more conventional microprocessors such as the Intel® Pentium® microprocessor. The processor 402 is in communication with a data storage device 404, such as an appropriate combination of magnetic, optical and/or semiconductor memory. The processor 402 and
10 the storage device 404 may each be (i) located entirely within a single computer or other computing device; (ii) connected to each other by a remote communication medium, such as a serial port cable, telephone line or radio frequency transceiver; or (iii) a combination thereof. For example, the store controller 400 may comprise one or more computers that are connected to a remote computer for maintaining databases.

15 The processor 402 is also in communication with an input device 406, a printer 408 and a display device 410. The input device 406 preferably comprises a keypad for transmitting input signals to the processor 402. The printer 408 is for registering indicia on paper or other material. The display device 410 is operative to display at least alphanumeric characters to the customer and/or cashier, and thus may be any of a number
20 of known video monitors, liquid crystal displays ("LCD") or light emitting diode ("LED") displays. Many types of input devices, printers and display devices are known to those skilled in the art, and need not be described in detail herein.

The storage device 404 stores a control program 420 for controlling the processor 402. The processor 402 performs instructions of the control program 420 and thereby operates in accordance with the present invention and particularly in accordance with the methods described in detail herein. The control program 420 furthermore
5 includes program elements that may be necessary, such as an operating system and "device drivers" for allowing the processor 402 to interface with computer peripheral devices. Appropriate device drivers and other necessary program elements are known to those skilled in the art and need not be described in detail herein.

The storage device 404 also stores (i) an inventory database 422, and (ii) a
10 customer database 424. In another embodiment, one or more POS terminals or merchant web servers may store one or more of the databases 422 and 424. The databases 422 and 424 are described in detail below and depicted with exemplary entries in the accompanying figures. As will be understood by those skilled in the art, the schematic illustrations and accompanying descriptions of the databases presented herein are exemplary arrangements
15 for stored representations of information. A number of other arrangements may be employed besides the tables shown. Similarly, the illustrated entries represent exemplary information, but those skilled in the art will understand that the number and content of the entries can be different from those illustrated herein.

Referring to FIG. 5, a POS terminal 500 is descriptive of any or all of the
20 POS terminals 220, 230 and 240 (FIG. 2). The POS terminal 500 includes a processor 502 that comprises one or more conventional microprocessors such as the Intel® Pentium® microprocessor. The processor 502 is in communication with a data storage device 504,

such as an appropriate combination of magnetic, optical and/or semiconductor memory.

The processor 502 and the storage device 504 may each be (i) located entirely within a single computer or other computing device; (ii) connected to each other by a remote communication medium, such as a serial port cable, telephone line or radio frequency

5 transceiver; or (iii) a combination thereof. For example, the POS terminal 500 may comprise one or more computers that are connected to a remote computer for maintaining databases.

The processor 502 is also in communication with an input device 506, a printer 508 and a display device 510. The input device 506 may comprise one or more of

10 (i) a keypad for transmitting input signals to the processor 502; (ii) a card reader for reading magnetically-encoded information on cards passed therethrough, such as credit cards, frequent shopper cards and identity cards; (iii) an optical scanner for reading bar codes, such as bar codes registered on items of inventory; (iv) a touch screen for generating signals that indicate when and where the screen has been touched, pressed or actuated; and

15 (v) a card reader for reading from and writing to a chip-based "smart card" such as those manufactured by Mondex. The printer 508 is for registering indicia on paper or other material, thereby printing receipts, coupons and vouchers as commanded by the processor 502. The display device 510 is operative to display at least alphanumeric characters to the customer and/or cashier, and thus may be any of a number of known video monitors, liquid

20 crystal displays ("LCD") or light emitting diode ("LED") displays. Many types of input devices, printers and display devices are known to those skilled in the art, and need not be described in detail herein.

The storage device 504 stores a control program 520 for controlling the processor 502. The processor 502 performs instructions of the control program 520 and thereby operates in accordance with the present invention and particularly in accordance with the methods described in detail herein. The control program 520 furthermore
5 includes program elements that may be necessary, such as an operating system and "device drivers" for allowing the processor 502 to interface with computer peripheral devices. Appropriate device drivers and other necessary program elements are known to those skilled in the art and need not be described in detail herein.

Referring to FIG. 6, a table 600 illustrates an embodiment of the merchant
10 database 322 (FIG. 3). The table 600 includes entries 602, 604 and 606, each of which describes a merchant that owns, operates or controls a store controller or a merchant web server. It will be understood by those skilled in the art that the table 600 may include any number of entries. The table 600 also defines fields for each of the entries 602, 604 and 606, which specify (i) a merchant identifier 620 for uniquely identifying the merchant, (ii)
15 a name 622 of the merchant, (iii) an address 624 of the merchant, (iv) a standard industry classification ("SIC") code 626 of the merchant which defines a merchant class of the merchant, (v) billing instructions 628 indicating how the merchant will be billed, (vi) an amount owed 630 by the merchant, (vii) a payment due date 632 on which the merchant must remit payment, (viii) a budget amount remaining 634 for the merchant, (ix) a frozen
20 portion 636 of the budget amount, and (x) a priority 638 to be given to the merchant.

Referring to FIG. 7, a table 700 illustrates a record of the merchant database 322 (FIG. 3) in another embodiment of the present invention. In such an embodiment, the

merchant database 322 includes a plurality of records, each of which describes a merchant that owns, operates or controls a store controller or a merchant web server. The table 700 includes the merchant identifier and merchant name 702. The table 700 also includes entries 704 and 706, each of which describes another merchant (a "soliciting merchant") and the relation between the soliciting merchant and the merchant described by the record. It will be understood by those skilled in the art that the table 700 may include any number of entries. The table 700 also defines fields for each of the entries 704 and 706, which specify (i) a soliciting merchant identifier 720, (ii) whether the merchant described by the record will output for the soliciting merchant 722, (iii) a fee 724 that the merchant described by the record will require in return for outputting an offer for the soliciting merchant, and (iv) a priority 726 that the soliciting merchant has. The priority may be used to select a soliciting merchant for which to output an offer if it is possible to output for more than one soliciting merchant.

Referring to FIG. 8, a table 800 illustrates an embodiment of the offer criteria database 324 (FIG. 3). The table 800 includes entries 802, 804, 806 and 808, each of which describes criteria for defining when to provide an offer for a bonus. The offer is provided to a customer if the customer satisfies criteria while participating in a first transaction with a first merchant. The first merchant, known as an "outputting merchant", outputs the offer for a bonus once the customer satisfies the criteria. It will be understood by those skilled in the art that the table 800 may include any number of entries. The table 800 also defines fields for each of the entries 802, 804, 806 and 808, which specify (i) a criteria identifier 822 for uniquely identifying the criteria, (ii) a merchant identifier 824

that identifies the outputting merchant, (iii) a required purchase price 826 that must be met in order to receive an offer for the bonus, (iv) a time of the transaction 828 that must be met in order to receive an offer for the bonus, (v) a bonus identifier 830 that uniquely identifies the bonus, and (vi) the soliciting merchant 832 on whose behalf the outputting merchant provides the offer. The required purchase price 826 and time of transaction 828 represent criteria that are based on transaction data. Those skilled in the art will understand that many other types of criteria may be used, such as the age of the customer or the type of credit card identifier used by the customer during the transaction.

The customer is required to participate in a transaction with the outputting merchant in order to receive the offer for the bonus. The customer may also be required to participate in the transaction at an indicated time, and the transaction may be required to have an indicated purchase price and include an indicated item. For example, the entry 806 (FIG. 8) indicates a bonus identified by "D0001". A customer receives an offer for the bonus "D0001" after having participated in a transaction for more than \$10.00 with merchant "M0001" on a weekday before 5:00 PM. Further criteria may be specified as will be understood by those skilled in the art.

Referring to FIG. 9, a table 900 illustrates an embodiment of the priority database 326 (FIG. 3). The table 900 includes entries 902, 904, 906 and 908, each of which describes a rule for determining priority between two or more soliciting merchants.

When an outputting merchant may provide offers on behalf of two or more soliciting merchants, the soliciting merchant with the highest priority is selected. It will be understood by those skilled in the art that the table 900 may include any number of entries.

merchant, and required item to purchase each represent a condition which the customer must meet in order to receive the bonus. Many other conditions may be used as well.

The bonus value is typically expressed as, for example, a percentage off the previous (first) transaction during which the offer for the bonus was made. The bonus

5 value may also be expressed as a percentage off the current transaction. The customer is required to participate in a transaction with the soliciting merchant in order to receive the bonus. The customer may also be required to participate in a transaction at an indicated time, having an indicated purchase price and including an indicated item. For example, the entry 1008 indicates a bonus of five percent off the previous transaction. A customer
10 receives this bonus after having participated in a transaction for more than \$10.00 with merchant "M0001" on Saturday between 9:00 and 12:00.

Referring to FIG. 11, a table 1100 illustrates a record of the bonus database 328 (FIG. 3) in another embodiment of the present invention. In such an embodiment, the customer is provided with the bonus once the customer participates in a transaction with
15 each of a plurality of soliciting merchants, subject to the customer meeting the conditions of each soliciting merchant. In one embodiment, the customer may be required to participate in the transactions in a predefined order. In another embodiment, no order of the transactions is required.

The table 1100 includes a bonus identifier 1102 and a bonus value 1104.

20 The table 1100 also includes entries 1106, 1108 and 1110, each of which describes a soliciting merchant and conditions which the customer must meet at the soliciting merchant in order to receive the bonus. It will be understood by those skilled in the art that

the table 1100 may include any number of entries. The table 1100 also defines fields for each of the entries 1106, 1108 and 1110, which specify (i) a merchant identifier 1120 for uniquely identifying the soliciting merchant, (ii) a time of the transaction 1122 with the soliciting merchant, (iii) a required purchase price 1124 with the soliciting merchant, and
5 (iv) a required item to purchase 1126, if any. The time of the second transaction, required purchase price at the soliciting merchant, and required item to purchase each represent a condition which the customer must meet in order to receive the bonus. Many other conditions may be used as well.

Referring to FIG. 12, a table 1200 illustrates an embodiment of the offer
10 database 330 (FIG. 3). The table 1200 includes entries 1202, 1204 and 1206, each of which describes an offer for a bonus that has been provided to a customer. It will be understood by those skilled in the art that the table 1200 may include any number of entries. The table 1200 also defines fields for each of the entries 1202, 1204 and 1206, which specify (i) an offer identifier 1220 for uniquely identifying the offer; (ii) a bonus
15 identifier 1222 that uniquely identifies the bonus that has been offered; (iii) a criteria identifier 1224 that uniquely identifies the criteria that the customer satisfied in order to be offered the bonus; (iv) an outputting merchant 1226 that offered the bonus; (v) a soliciting merchant 1228 providing the bonus; (vi) a customer identifier 1230 that uniquely identifies the customer; (vii) an offer status 1232 which may indicate, for example, whether (and
20 when) the offer is redeemed, unredeemed or expired; and (viii) a validity period 1234 that indicates when the offer is able to be redeemed. An offer for a bonus is considered redeemed when the bonus is provided to the customer.

The table 900 also defines fields for each of the entries 902, 904, 906 and 908, which specify (i) a rule identifier 920 that uniquely identifies the rule, (ii) an indication 922 of when the rule is active and to be applied, and (iii) a prioritization 924 indicating which soliciting merchant(s) are to be afforded priority over others. For example, the entry 902
5 defines a rule that is applied only after 7:00 PM. The rule further defines that restaurants ("merchant class = restaurant") have higher priority ("Priority = 1") over non-restaurants ("Priority = 2"). Accordingly, after 7:00 an outputting merchant will output offers on behalf of a restaurant over offers on behalf of non-restaurants.

Referring to FIG. 10, a table 1000 illustrates an embodiment of the bonus
10 database 328 (FIG. 3). The table 1000 includes entries 1002, 1004, 1006 and 1008, each of which describes a bonus that may be offered to a customer of an outputting merchant and conditions which the customer must meet with a soliciting merchant in order to receive the bonus. The bonus is typically awarded once the customer participates in a transaction with a second (soliciting) merchant, subject to the customer meeting the conditions. It will be
15 understood by those skilled in the art that the table 1000 may include any number of entries. The table 1000 also defines fields for each of the entries 1002, 1004, 1006 and 1008, which specify (i) a bonus identifier 1020 for uniquely identifying the bonus, (ii) a bonus value 1022, (iii) a merchant identifier 1024 that identifies the second (soliciting) merchant, (iv) a time of the transaction 1026 with the soliciting merchant, (v) a required
20 purchase price 1028 with the soliciting merchant, and (vi) a required item to purchase 1030, if any. The time of the second transaction, required purchase price at the soliciting

understood by those skilled in the art. The offered bonus is recorded (step 1628). For example, an appropriate entry may be created in the offer database 330 (FIG. 3).

Subsequently, transaction data that represents the customer participating in a transaction with the soliciting merchant is received (step 1630). In response, an entry for the soliciting merchant is retrieved (step 1632). For example, the offer database 330 (FIG. 3) may be searched for entries that indicate both the customer (e.g. by the field 1230) and the soliciting merchant (e.g. by the field 1228). The entry indicates the bonus, and the bonus is provided to the customer (step 1634). For example, a credit card account of the customer may be credited with an amount defined by the discount. In addition, the offer summary database 332 (FIG. 3) is updated to reflect the redeemed offer. The offer database 330 is also updated to reflect the redeemed offer.

Referring to FIGS. 17A and 17B, a flow chart 1700 illustrates an embodiment of a method provided in accordance with the present invention. The steps of this method may be performed in whole or in part by "browser" software, such as Netscape's Communicator® or Microsoft's Internet Explorer®, that is executed by the user computer 110 (FIG. 1).

The user computer 110 accesses the web site of an outputting merchant (step 1702) which allows customers to place orders online. The user computer 110 receives transaction data and a credit card number from the customer (step 1704), and transmits the transaction data and credit card number to the outputting merchant web server (step 1706). The credit card number identifies a credit card account that the

customer has used to pay for the transaction. There are other ways besides identifying a credit card account to be charged in which the customer may render payment.

Once the outputting merchant web server receives the transaction data, it determines whether the customer has satisfied criteria, if any, to qualify for an offer for a bonus. If so, then the user computer 110 receives data from the outputting merchant web server that indicates the bonus (step 1708). The bonus and any associated conditions are stored (step 1710), for example, in a cookie or other file on the user computer 110 or on the Internet service provider computer 120 (FIG. 1). The conditions may also be stored on the soliciting merchant web server or the outputting merchant web server.

The user computer 110 creates (or receives) a link that displays an offer for the bonus (step 1712). The link may be a hyperlink, banner advertisement, additional frame, new window, or other element on the web site of the outputting merchant. Alternatively, the outputting merchant web server may alter the web site that is accessed by the user computer 110. If the customer wishes to take advantage of the offer and make a purchase from another (soliciting) merchant, the user computer 110 receives a command from the customer to connect to the link (step 1714) and thus access the web site of the soliciting merchant (step 1716).

The web site of the soliciting merchant likewise allows customers to place orders online. The user computer 110 receives transaction data and the credit card number from the customer (step 1718); and transmits this transaction data and credit card number to the soliciting merchant web server (step 1720). If the transaction with the soliciting merchant does not satisfy the conditions (step 1722), then the transaction is processed in a

Referring to FIG. 13, a table 1300 illustrates an embodiment of the offer summary database 332 (FIG. 3). The table 1300 includes entries 1302, 1304, 1306 and 1308, each of which describes summary information about bonuses that have been offered to customers. It will be understood by those skilled in the art that the table 1300 may

5 include any number of entries. The table 1300 also defines fields for each of the entries 1302, 1304, 1306 and 1308, which specify (i) an bonus identifier 1320 for uniquely identifying the bonus, (ii) a number of offers for the bonus that were provided 1322, (iii) a number of offers for the bonus that were redeemed 1324, (iv) a number of offers for the bonus that were unredeemed 1326 (neither redeemed nor expired), and (v) a number of

10 offers for the bonus that were expired 1328 (not redeemed before the end of the validity period of the offer). The number of offers for the bonus that were provided is the sum of the number of offers for the bonus that were redeemed, the number of offers for the bonus that were unredeemed and the number of offers for the bonus that were expired. Those skilled in the art will understand that the summary information may also be organized by

15 offer or by offer and bonus jointly, rather than by bonus as illustrated in FIG. 13. The information in the offer summary database 332 may be updated periodically (e.g. once per day) to reflect offers that have expired or been redeemed.

Referring to FIG. 14, a table 1400 illustrates an embodiment of the inventory database 422 (FIG. 4). The table 1400 includes entries 1402 and 1404, each of

20 which describes an item of inventory that is sold by a merchant. It will be understood by those skilled in the art that the table 1400 may include any number of entries. The table 1400 also defines fields for each of the entries 1402 and 1404, which specify (i) an

inventory identifier 1420 for uniquely identifying the item of inventory, (ii) a description 1422 of the item of inventory, (iii) a price 1424 for which the item of inventory is sold, and (iv) a quantity remaining 1426 of the item of inventory.

Referring to FIG. 15, a table 1500 illustrates a record of the customer

5 database 424 (FIG. 4). The customer database 424 typically includes a plurality of such records, each representing a customer and associated customer information. The customer information is typically recorded by the customer database 424 upon becoming registered for a "frequent shopper program" of the merchant. In other embodiment, the information about the customer may be acquired in another manner. The table 1500 includes a
10 customer identifier 1502 that uniquely identifies the customer, a customer name 1504, and address 1506 of the customer and a credit card number 1508, if any, of the customer. In one embodiment, the customer identifier may be the credit card number. Accordingly, a customer using a credit card could be identified even if he had not registered for a frequent shopper program.

15 The table 1500 also includes entries 1510 and 1512, each of which describes a transaction of the customer. It will be understood by those skilled in the art that the table 1500 may include any number of entries. The table 1500 also defines fields for each of the entries 1510 and 1512, which specify (i) a transaction identifier 1520 that uniquely identifies the transaction, (ii) a merchant identifier 1522 that identifies the
20 merchant with which the customer interacted during the transaction, (iii) a date and time 1524 of the transaction, and (iv) a purchase price 1526 of the transaction.

Referring to FIG. 16A, a flow chart 1600 illustrates an embodiment of a method for providing an offer for a bonus. In particular, the illustrated method is performed to establish a "routing" of customers from outputting merchants to soliciting merchants. A soliciting merchant is selected (step 1602) from a plurality of possible soliciting merchants. Similarly, an outputting merchant is selected (step 1604) from a plurality of possible outputting merchants. As described in detail below, there are many ways in which the soliciting merchant and outputting merchant may be selected. After a soliciting merchant and an outputting merchant have been selected, an entry is created (step 1606) to indicate the soliciting merchant, outputting merchant and a bonus. As described above, the bonus is typically set by the soliciting merchant, and offered to a customer of the outputting merchant.

Referring to FIG. 16B, a flow chart 1620 illustrates an embodiment of a method for providing an offer for a bonus. The illustrated method is performed after an entry has been created as described above with reference to the flow chart 1600 (FIG. 16A). Transaction data that represents a customer participating in a transaction with the outputting merchant is received (step 1622). In response, an entry for the outputting merchant is retrieved (step 1624). For example, the offer criteria database 324 (FIG. 3) may be searched for entries that indicate the outputting merchant in the field 824 (FIG. 8). The entry indicates a bonus, and an offer for the bonus is provided to the customer (step 1626). Such an offer may include a text or graphic display to the customer, a text or graphic display to a cashier who in turn reads the offer to the customer, or an audio representation of the offer. Many other ways of providing the offer to the customer will be

conventional manner (step 1724). Otherwise, the credit card account is credited (step 1726) with an amount defined by the bonus.

As described above, the bonus is applied to the customer account upon completion of a second transaction at the soliciting merchant. However, in another embodiment of the present invention, the customer may be further required to complete another transaction at the first merchant. Accordingly, the customer would have to participate in a first transaction at a first merchant, a second transaction at a second merchant, and then a third transaction at the first merchant. Although the customer may be required to meet certain conditions during the third transaction, typically the customer need not be so restrained.

Similarly, in another embodiment of the present invention the customer may be required to complete transactions at a plurality of soliciting merchants. Accordingly, the customer would have to participate in a first transaction at a first merchant, a second transaction at a second merchant, and then a third transaction at a third merchant. The customer may be required to participate in any number of transactions in order to receive the offered bonus.

The routing of customers from an outputting merchant to a soliciting merchant may be based on the activity rate of the outputting merchant and/or the soliciting merchant. The activity rate may be any measure of "busyness", such as the number of completed transactions per time (transaction rate); the number of items purchased per period of time (item sale rate), the number of upsells accepted by customers per period of time (upsell acceptance rate), the number of customers in a store, the dollar-value of sales

per period of time or the number of customers in the vicinity of a POS terminal. The number of customers may be measured through input signals received from a sensor. Many other types of measurements may be made to determine an activity rate of a merchant.

5 Referring to FIG. 18, a flow chart 1800 illustrates another embodiment of a method provided in accordance with the present invention. In particular, in the embodiment illustrated by the flow chart 1800 customers are routed from the outputting merchant to the soliciting merchant based on the activity rates of the outputting merchant and/or the soliciting merchant.

10 A first merchant is selected (step 1802), and its activity rate is measured (step 1804) to determine whether it is sufficiently idle to receive customers that are "routed" from other (outputting) merchants. The measurements may be made, for example, by a POS terminal with which customers are interacting, by another device in a store, or by a web server that measures the number of customer accessing a web site. The
15 measurements or data indicative of the activity rate would then be transmitted to the server 210 (FIG. 2) via a store controller in communication with the POS terminal or other device. Alternatively, the measurements may be transmitted to the Internet service provider 120 (FIG. 1). The server 210 or Internet service provider 120 could measure the activity rate by receiving the measurement signal and/or by receiving transaction data (or
20 other data) from which an activity rate can be measured.

If the measured activity rate is not less than a first predetermined threshold (step 1806), then the merchant is not considered sufficiently idle and it is determined if

there is another merchant (step 1808) having an unmeasured activity rate. If so, the next merchant is selected (step 1812) and its activity rate is measured (step 1804).

If the measured activity rate is less than the first predetermined threshold, then the merchant is sufficiently idle. In response, in the bonus database 328 (FIG. 3) an entry is created that indicates the first merchant and a bonus value (step 1814). The entry may also include conditions, such as time of transaction, purchase price and/or item to purchase.

A second merchant different from the first merchant (i.e. the merchant whose activity rate was measured) is selected (step 1816), and its activity rate is measured (step 1818) to determine whether it is sufficiently busy to "route" customers to the first merchant. The measurements may be made, for example, by a POS terminal with which customers are interacting, by another device in a store, or by a web server that measures the number of customer accessing a web site. The measurements would then be transmitted to the server 210 (FIG. 2) via a store controller in communication with the POS terminal or other device. Alternatively, the measurements may be transmitted to the Internet service provider 120 (FIG. 1).

If the measured activity rate is not greater than a second predetermined threshold (step 1820), then the merchant is not considered sufficiently busy and it is determined if there is another merchant (step 1822). If there is no next merchant to select, then the second threshold is reduced (step 1824). The next merchant is then selected (step 1816) and its activity rate is measured (step 1818).

If the measured activity rate is greater than the second predetermined threshold, then the merchant is sufficiently busy. In response, in the offer criteria database 324 (FIG. 3) an entry is created that associates the aforementioned entry in the bonus database 328 with the second merchant (step 1826). This association effectively "ties" the second merchant to the entry in the bonus database 328.

The type of bonus offered may be, for example, a discount, another amount of monetary value or a free product (good or service). In other embodiments of the present invention, the bonus may be a line pass or other voucher that allows a customer to receive preferential treatment (e.g. not waiting in line). Many types of bonuses may be measured by a value. For example, the value of a discount is the amount by which a purchase price is reduced. Similarly, the value of a free product may be the retail price of the product, or the cost of the product to the business that sells the product. In accordance with the present invention, a business may establish a budget amount that defines the maximum aggregate value of all offered bonuses. Such a bonus amount may represent an amount of funds actually transferred to an account and reserved for funding discounts. Alternatively, the budget amount may represent a desirable spending limit of the business, while the business is subsequently charged for discounts that are redeemed.

Referring to FIG. 19A, a flow chart 1900 illustrates another embodiment of a method provided in accordance with the present invention. In particular, in the embodiment illustrated by the flow chart 1900 bonuses are provided in accordance with a budget amount of the business.

Referring to FIG. 19B, a flow chart 1950 illustrates another embodiment of a method provided in accordance with the present invention. In particular, the method illustrated by the flow chart 1950 is performed after the method illustrated by the flow chart 1900. The method illustrated by the flow chart 1950 may be performed periodically (e.g. every ten minutes) and/or upon occurrence of a predetermined event, such as when an offer is redeemed.

If the offer for the bonus is redeemed (step 1952), then the budget amount of the soliciting merchant is decreased by the value of the offered bonus (step 1954). In another embodiment in which the budget amount is decreased by a frozen amount, the budget amount may be unadjusted but a "frozen amount" balance may be decreased.

If the offer for the bonus is not redeemed, it is determined whether the offer has expired (step 1956). If so, the portion of the budget amount equal to the value of the bonus is unfrozen (step 1958). Unfreezing may comprise increasing the budget amount by the unfrozen amount. Alternatively, unfreezing may comprise decreasing the amount of a "frozen amount" balance and/or increasing an "available amount" balance associated with the budget amount.

A soliciting merchant may have to select from among several possible outputting merchants. The soliciting merchant will want to select the outputting merchant whose customers are most likely to redeem the offers of the soliciting merchant. In order to optimally select the outputting merchant, the historical redemption by the customers of various outputting merchants may be measured.

for which the outputting merchant may provide offers. One restriction is whether there is an appropriate entry in the offer criteria database 324 (FIG. 3). For example, there must be an entry having an indication of this outputting merchant in the field 824 (FIG. 8) and an indication of this soliciting merchant in the field 832 (FIG. 8). A further restriction may be specified by the field 722 (FIG. 7) described above. If there is not more than one possible soliciting merchant (step 2106), then the offer corresponding to the soliciting merchant is provided (step 2108) as described above.

If there is more than one possible soliciting merchant, then the priority of each soliciting merchant is determined (step 2110). For example, such priorities may be stored in the merchant database 322. The field 638 of FIG. 6 indicates a priority for each merchant. Alternatively, the field 726 of FIG. 7 indicates a priority for each soliciting merchant given a particular outputting merchant indicated by field 702. The soliciting merchant with the highest priority is selected (step 2112), and the corresponding offer is provided (step 2114).

In another embodiment, if there is more than one possible soliciting merchant, then a corresponding offer could be provided for each of a plurality of soliciting merchants. For example, the customer may be asked to select from two offers for bonuses. The customer could provide his selection, which would be recorded, and the selected offer would be provided, as described above. Alternatively, the customer could be provided with both offers. Accordingly, the customer could be possibly redeem one or both bonuses, as described above.

may be made to those embodiments described herein without departing from the spirit and scope of the present invention. For example, besides a purchase a soliciting merchant may also accept that the customer perform a number of different types of transactions, such as participating in surveys.

Transaction data that represents a customer participating in a transaction with an outputting merchant is received (step 1901). As described above, a soliciting merchant is selected (step 1902) to determine a bonus to be offered to the customer. The budget amount of the soliciting merchant is determined (step 1904). For example, the merchant database 322 (FIG. 3) may store the budget amount of the merchant (e.g. in the field 634 of FIG. 6). The value of the bonus is set based on the budget amount. In one embodiment, the bonus value is a predetermined value (e.g. \$10.00) if the budget amount is at least as great as the predetermined value. If the budget amount is less than the predetermined value, then the value is set lower to remain within the limits of the budget amount. In another embodiment, the bonus value is set to a first value (e.g. \$10.00) if the budget amount is greater than a second value (e.g. greater than \$100.00), and the bonus value is set to a third value (e.g. \$1.00) if the budget amount is less than the second value (e.g. less than \$100.00). In this manner, the bonus value may be prudently allocated from the budget amount when a lower budget amount remains available.

A portion of the budget amount equal to the value of the bonus is "frozen" (step 1908); the portion is made unavailable for allocation of subsequent bonuses. Freezing may comprise reducing the budget amount by the frozen amount. Alternatively, freezing may comprise increasing the amount of a "frozen amount" balance and/or decreasing an "available amount" balance associated with the budget amount. An offer for the bonus is provided to the customer of the outputting merchant (step 1910) as described above.

Referring to FIG. 20, a flow chart 2000 illustrates another embodiment of a method provided in accordance with the present invention. An outputting merchant is selected (step 2002) from the set of possible outputting merchants. Then, the redemption of offers that were output by this outputting merchant on behalf of the soliciting merchant is determined (step 2004). For example, such information on redemption may be stored in the offer summary database 332 (FIG. 3). If there are more outputting merchants (step 2006) whose redemption information must be measured, then the next outputting merchant is selected (step 2008) and processed. When all possible outputting merchants have been processed, the outputting merchant with the maximum redemption is selected (step 2010).

Referring to FIG. 21, a flow chart 2100 illustrates another embodiment of a method provided in accordance with the present invention. In particular, the illustrated method allows the selection of a soliciting merchant from among several possible soliciting merchants by referring to priority ratings of the soliciting merchants. The priority of each merchant may be established by an amount of funds paid by the merchant. For example, each merchant could be charged larger amount of money in return for a higher priority. The priority of each merchant may also be established by one or more predetermined rules (e.g. stored in the priority database 326 of FIG. 3) or the activity rate of the merchant, as described above.

Transaction data that represents a customer participating in a transaction with an outputting merchant is received (step 2102). As described above, soliciting merchants for which the outputting merchant may provide offers is determined (step 2104). There may be restrictions on whether a merchant may be considered a soliciting merchant

Referring to FIG. 22, a flow chart 2200 illustrates another embodiment of a method provided in accordance with the present invention. In particular, the illustrated method allows a supplemental bonus to be provided to certain customers. For example, if the customer redeems one of the first ten offers, he receives a supplemental bonus.

5 Transaction data that represents a customer participating in a transaction with an soliciting merchant is received (step 2202). Next, a bonus for the customer is determined (step 2204). The number of redeemed offers that are similar (or identical) to the bonus is counted (step 2206). For example, the offers that were output by the same outputting merchant and that were made on behalf of the same soliciting merchant may be
10 deemed similar. Alternatively, only the offers that were made on behalf of the same soliciting merchant may be deemed similar.

If the number of redeemed offers is less than a threshold, then the bonus and a supplemental bonus are provided to the customer (step 2210). The supplemental bonus may comprise, for example, an increased discount or a free product. If the number of
15 redeemed offers is not less than the threshold, then only the bonus is provided (step 2212).

In a related embodiment, if the customer redeems one of the first ten offers, he receives a bonus. Otherwise, customers are ineligible for the bonus. Accordingly, if the number of redeemed offers is less than the threshold, then the bonus is provided to the customer. However, if the number of redeemed offers is not less than the threshold, then
20 no bonus is provided.

Although the present invention has been described with respect to a preferred embodiment thereof, those skilled in the art will note that various substitutions

What is claimed is:

1. A method for providing an offer for a bonus, comprising:

selecting a soliciting merchant;

selecting an outputting merchant; and

providing to a customer of the outputting merchant an offer for a bonus in

5 exchange for consummating a transaction with the soliciting merchant.

2. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

selecting a plurality of soliciting merchants.

3. The method of claim 2, further comprising:

10 receiving a customer selection of a soliciting merchant of the plurality of soliciting merchants.

4. The method of claim 2 in which the step of providing an offer for a bonus comprises:

providing to a customer of the outputting merchant an offer for each of the plurality

15 of soliciting merchants.

5. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

selecting based on an activity rate of the soliciting merchant.

6. The method of claim 1 in which the step of selecting a soliciting merchant

5 comprises:

selecting based on a predetermined rule.

7. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

selecting based on at least one of

10 a current time,
an activity rate of the soliciting merchant,
a priority of the soliciting merchant,
an availability of the soliciting merchant,
a merchant class of the soliciting merchant, and
15 a number of offers provided on behalf of the soliciting merchant.

8. The method of claim 7, further comprising:

determining the priority of the soliciting merchant based on at least one of:

an amount of funds paid by the soliciting merchant,

a current time,

a predetermined rule, and
an activity rate of the soliciting merchant.

9. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

5 measuring an activity rate of the soliciting merchant;
 selecting the soliciting merchant if the activity rate is less than a predetermined threshold.

10. The method of claim 9 in which the step of measuring an activity rate of the soliciting merchant comprises:

10 measuring an number of transactions per predetermined time period.

11. The method of claim 9 in which the step of measuring an activity rate of the soliciting merchant comprises:

 determining a number of sales of a predetermined product.

12. The method of claim 11 in which the step of providing an offer comprises:

15 providing to a customer of the outputting merchant an offer for the predetermined product in exchange for consummating a transaction with the soliciting merchant.

13. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

selecting the soliciting merchant if the soliciting merchant is registered as an outputting merchant.

5 14. The method of claim 1 in which the step of selecting a soliciting merchant comprises:

determining a budget amount of the soliciting merchant; and

selecting the soliciting merchant if the budget amount is greater than a predetermined threshold.

10 15. The method of claim 1 in which the step of selecting an outputting merchant comprises:

selecting based on at least one of:

a current time,

an activity rate of the outputting merchant,

15 redemption of offers provided by the outputting merchant,

an availability of the outputting merchant,

a priority of the outputting merchant, and

a merchant class of the outputting merchant.

16. The method of claim 15, further comprising

determining the priority of the outputting merchant based on an amount of funds paid by the outputting merchant.

17. The method of claim 1 in which the step of selecting an outputting merchant comprises:

5 determining a redemption of offers that were previously output by the outputting merchant.

18. The method of claim 17 in which the step of determining a redemption of offers comprises:

determining a first amount of offers that were previously output by the outputting
10 merchant; and
determining a percentage of the offers that were redeemed.

19. The method of claim 17, further comprising:

selecting the outputting merchant if the redemption is greater than a predetermined threshold.

15 20. The method of claim 1 in which the step of selecting an outputting merchant comprises:

determining a redemption of offers that were previously output by each of a plurality of outputting merchants; and

selecting an outputting merchant having a maximal redemption of offers.

21. The method of claim 1 in which the step of providing an offer comprises:
determining a budget amount of the soliciting merchant; and
setting a value of the bonus based on the budget amount.

- 5 22. The method of claim 21, further comprising:
freezing a portion of the budget amount, the portion being based on the value of the
bonus.

23. The method of claim 22, further comprising:
unfreezing the portion of the budget amount if the offer expires.

- 10 24. The method of claim 21 in which the bonus has a value that is based on an unfrozen
portion of the budget amount.

25. The method of claim 1 in which the step of providing an offer comprises:
determining a value of the bonus;
determining a first portion of the value, the first portion to be paid by the soliciting
15 merchant; and
determining a second portion of the value, the second portion to be paid by the
outputting merchant.

26. The method of claim 25, further comprising:
determining a outputting merchant budget amount of the outputting merchant; and
determining a soliciting merchant budget amount of the soliciting merchant.

27. The method of claim 26, further comprising:

5 freezing a third portion of the soliciting merchant budget amount, the third portion
being based on the first portion of the value to be paid by the soliciting merchant; and
freezing a fourth portion of the outputting merchant budget amount, the fourth
portion being based on the second portion of the value to be paid by the outputting
merchant.

10 28. The method of claim 27, further comprising:
unfreezing the third portion of the soliciting merchant budget amount and the
fourth portion of the outputting merchant budget amount if the offer expires.

29. The method of claim 1, further comprising:

receiving a customer identifier that identifies the customer; and
15 in which the step of providing an offer is performed if the customer identifier is included
within a set of predetermined customer identifiers.

30. The method of claim 1, further comprising:

receiving transaction data representing a transaction with the outputting merchant.

31. The method of claim 30, further comprising:
determining a criterion for the outputting merchant; and
in which the step of providing an offer is performed if the transaction satisfies the
criterion.

5 32. The method of claim 31 in which the criterion is based on:
transaction data for the customer,
an age of the customer, and
a credit card identifier of the customer.

33. The method of claim 1, further comprising:
10 receiving transaction data representing a transaction of the customer with the
soliciting merchant; and
providing the bonus to the customer.

34. The method of claim 33, further comprising:
determining a soliciting merchant budget amount of the soliciting merchant; and
15 adjusting the soliciting merchant budget amount based on the value of the provided
bonus.

35. The method of claim 34, further comprising:
determining an outputting merchant budget amount of the outputting merchant; and

adjusting the outputting merchant budget amount based on the value of the provided bonus.

36. The method of claim 33, further comprising:

determining a condition for the soliciting merchant; and

5 in which the step of providing the bonus is performed if the transaction satisfies the condition.

37. The method of claim 33, further comprising:

counting a number of redeemed offers.

38. The method of claim 37, further comprising:

10 providing a supplemental bonus if the number of redeemed offers is less than a predetermined threshold.

39. The method of claim 33 in which the bonus comprises at least one of a discount,

a line pass, and

15 a predetermined product.

40. The method of claim 33 in which the step of providing the bonus comprises: crediting a credit card account.

41. The method of claim 1, further comprising:

creating an entry, the entry including an indication of the soliciting merchant and the outputting merchant.

42. The method of claim 41 in which the entry defines a criterion for the outputting
5 merchant.

43. The method of claim 41 in which the entry defines a condition for the soliciting merchant.

44. A method for providing an offer for a bonus, comprising:

measuring an activity rate; and

10 transmitting, if the activity rate is below a predetermined threshold, a request to have an outputting merchant output an offer for a bonus in exchange for consummating a transaction.

45. The method of claim 44, further comprising:

transmitting an indication of the bonus.

15 46. A method for providing an offer for a bonus, comprising:

receiving a request to output an offer for a bonus in exchange for consummating a transaction with a soliciting merchant; and

outputting an offer for a bonus in exchange for consummating a transaction with the soliciting merchant.

47. A method for providing an offer for a bonus, comprising:

selecting a soliciting merchant;

5 selecting an outputting merchant;

creating an entry, the entry indicating the soliciting merchant and the outputting merchant;

providing to a customer of the outputting merchant an offer for a bonus in exchange for consummating a transaction with the soliciting merchant, the bonus having a

10 bonus value;

receiving transaction data representing a transaction of the customer with the soliciting merchant;

providing the bonus to the customer; and

15 charging the soliciting merchant a charge amount, the charge amount being based on the bonus value.

48. The method of claim 47 in which the charge amount is substantially equal to the bonus value.

49. The method of claim 47, further comprising:

charging the outputting merchant a supplemental charge amount, the supplemental charge amount being based on the bonus value.

50. The method of claim 49 in which the bonus value is substantially equal to a sum of the charge amount and the supplemental charge amount.

5 51. A method comprising the steps of:

receiving an activity rate of a first merchant;

determining whether the activity rate is below a predetermined threshold; and

storing an entry that corresponds to the first merchant, the record defining a discount.

10 52. The method of claim 51, further comprising:

offering to a customer of a second merchant the discount in exchange for consummating a transaction with the first merchant.

53. A computer-readable storage medium storing an entry created in accordance with the method of claim 51.

15 54. A computer-readable storage medium storing a table of entries, each entry created in accordance with the method of claim 51.

55. A method for providing an offer for a bonus, comprising:

receiving a first activity rate of a first merchant;

determining whether the first activity rate is below a first predetermined threshold;

receiving a second activity rate of a second merchant;

5 determining whether the second activity rate is above a second predetermined threshold; ; and

creating an entry, the entry including an indication of the first merchant and the second merchant.

56. The method of claim 55, further comprising:

10 providing to a customer of the second merchant an offer for a bonus in exchange for consummating a transaction with the first merchant.

57. A computer-readable storage medium storing an entry created in accordance with the method of claim 55.

58. A computer-readable storage medium storing a table of entries, each entry created
15 in accordance with the method of claim 55.

59. A method for providing an offer for a bonus, comprising:

participating in a first transaction with a first merchant;

receiving an offer for a bonus in exchange for consummating a transaction with a second merchant;

participating in a second transaction with the second merchant after participating in the first transaction; and

5 receiving the bonus.

60. An apparatus for providing an offer for a bonus, comprising:

means for selecting a soliciting merchant;

means for selecting an outputting merchant; and

means for providing to a customer of the outputting merchant an offer for a bonus

10 in exchange for consummating a transaction with the soliciting merchant.

61. An apparatus for providing an offer for a bonus, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

15 the processor operative with the program to:

select a soliciting merchant;

select an outputting merchant; and

provide to a customer of the outputting merchant an offer for a bonus in exchange for consummating a transaction with the soliciting merchant.

62. A computer readable medium encoded with processing instructions for implementing a method performed by a computer for providing an offer for a bonus, the method comprising:

- selecting a soliciting merchant;
- 5 selecting an outputting merchant; and
- providing to a customer of the outputting merchant an offer for a bonus in exchange for consummating a transaction with the soliciting merchant.

63. An apparatus for providing an offer for a bonus, comprising:

- means for measuring an activity rate; and
- 10 means for transmitting, if the activity rate is below a predetermined threshold, a request to have an outputting merchant output an offer for a bonus in exchange for consummating a transaction.

64. An apparatus for providing an offer for a bonus, comprising:

- a storage device; and
- 15 a processor connected to the storage device,
- the storage device storing a program for controlling the processor; and
- the processor operative with the program to:
 - measure an activity rate; and

transmit, if the activity rate is below a predetermined threshold, a request to have an outputting merchant output an offer for a bonus in exchange for consummating a transaction.

65. A computer readable medium encoded with processing instructions for
5 implementing a method performed by a computer for providing an offer for a bonus, the method comprising:

measuring an activity rate; and

transmitting, if the activity rate is below a predetermined threshold, a request to have an outputting merchant output an offer for a bonus in exchange for consummating a
10 transaction.

66. An apparatus for providing an offer for a bonus, comprising:

means for receiving a request to output an offer for a bonus in exchange for consummating a transaction with a soliciting merchant; and

means for outputting an offer for a bonus in exchange for consummating a
15 transaction with the soliciting merchant.

67. An apparatus for providing an offer for a bonus, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

receive a request to output an offer for a bonus in exchange for consummating a transaction with a soliciting merchant; and

output an offer for a bonus in exchange for consummating a transaction
5 with the soliciting merchant.

68. A computer readable medium encoded with processing instructions for implementing a method performed by a computer for providing an offer for a bonus, the method comprising:

receiving a request to output an offer for a bonus in exchange for consummating a
10 transaction with a soliciting merchant; and

outputting an offer for a bonus in exchange for consummating a transaction with the soliciting merchant.

69. An apparatus comprising:

means for receiving an activity rate of a first merchant;
15 means for determining whether the activity rate is below a predetermined threshold;
and

means for storing an entry that corresponds to the first merchant, the record defining a discount.

70. An apparatus comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

- 5 receive an activity rate of a first merchant;
- determine whether the activity rate is below a predetermined threshold; and
- store an entry that corresponds to the first merchant, the record defining a
- discount.

71. A computer readable medium encoded with processing instructions for
- 10 implementing a method performed by a computer, the method comprising the steps of:
- receiving an activity rate of a first merchant;
- determining whether the activity rate is below a predetermined threshold; and
- storing an entry that corresponds to the first merchant, the record defining a
- discount.

- 15 72. An apparatus for providing an offer for a bonus, comprising:
- means for receiving a first activity rate of a first merchant;
- means for determining whether the first activity rate is below a first predetermined
- threshold;
- means for receiving a second activity rate of a second merchant;

means for determining whether the second activity rate is above a second predetermined threshold; and

means for creating an entry, the entry including an indication of the first merchant and the second merchant.

5 73. An apparatus for providing an offer for a bonus, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

10 receive a first activity rate of a first merchant;

determine whether the first activity rate is below a first predetermined threshold;

receive a second activity rate of a second merchant;

determine whether the second activity rate is above a second predetermined

15 threshold; and

create an entry, the entry including an indication of the first merchant and the second merchant.

74. A computer readable medium encoded with processing instructions for implementing a method performed by a computer for providing an offer for a bonus, the

20 method comprising:

receiving a first activity rate of a first merchant;
determining whether the first activity rate is below a first predetermined threshold;
receiving a second activity rate of a second merchant;
determining whether the second activity rate is above a second predetermined

5 threshold; and

creating an entry, the entry including an indication of the first merchant and the
second merchant.

75. An apparatus for providing an offer for a bonus, comprising:

means for participating in a first transaction with a first merchant;

10 means for receiving an offer for a bonus in exchange for consummating a
transaction with a second merchant;

means for participating in a second transaction with the second merchant after
participating in the first transaction; and

means for receiving the bonus.

15 76. An apparatus for providing an offer for a bonus, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

20 participate in a first transaction with a first merchant;

receive an offer for a bonus in exchange for consummating a transaction
with a second merchant;

participate in a second transaction with the second merchant after
participating in the first transaction; and

5 receive the bonus.

77. A computer readable medium encoded with processing instructions for
implementing a method performed by a computer for providing an offer for a bonus, the
method comprising:

participating in a first transaction with a first merchant;

10 receiving an offer for a bonus in exchange for consummating a transaction with a
second merchant;

participating in a second transaction with the second merchant after participating in
the first transaction; and

receiving the bonus.

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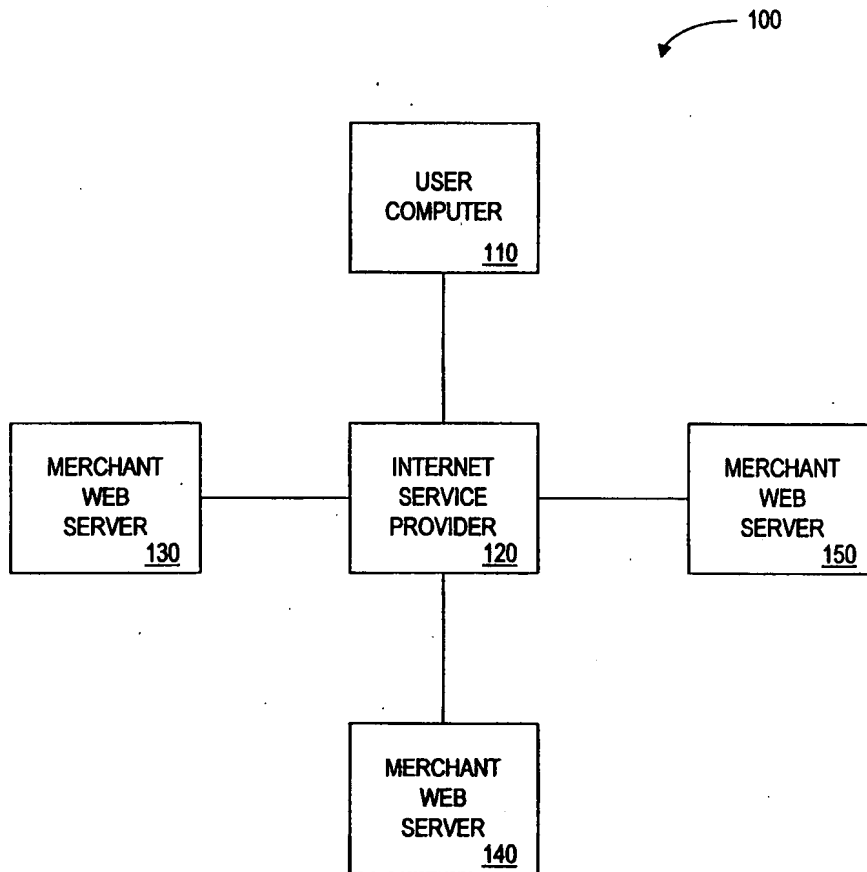


FIG. 1

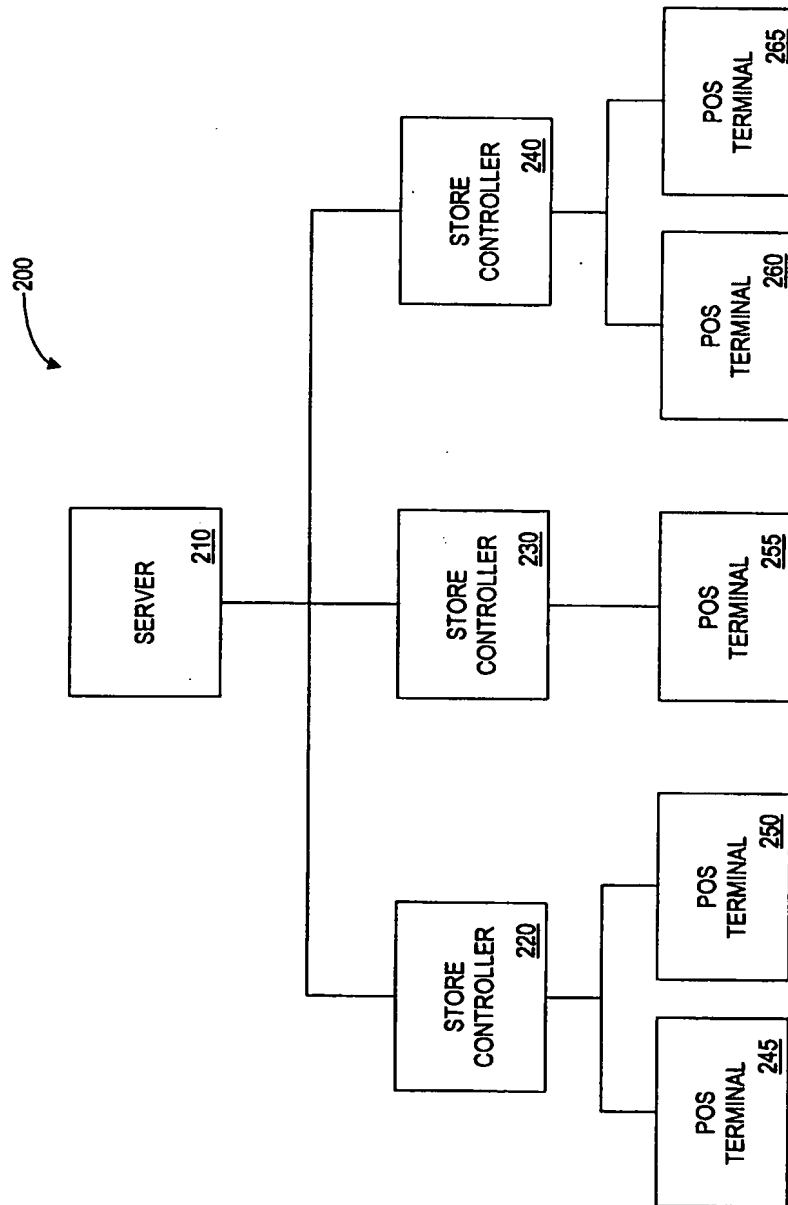


FIG. 2

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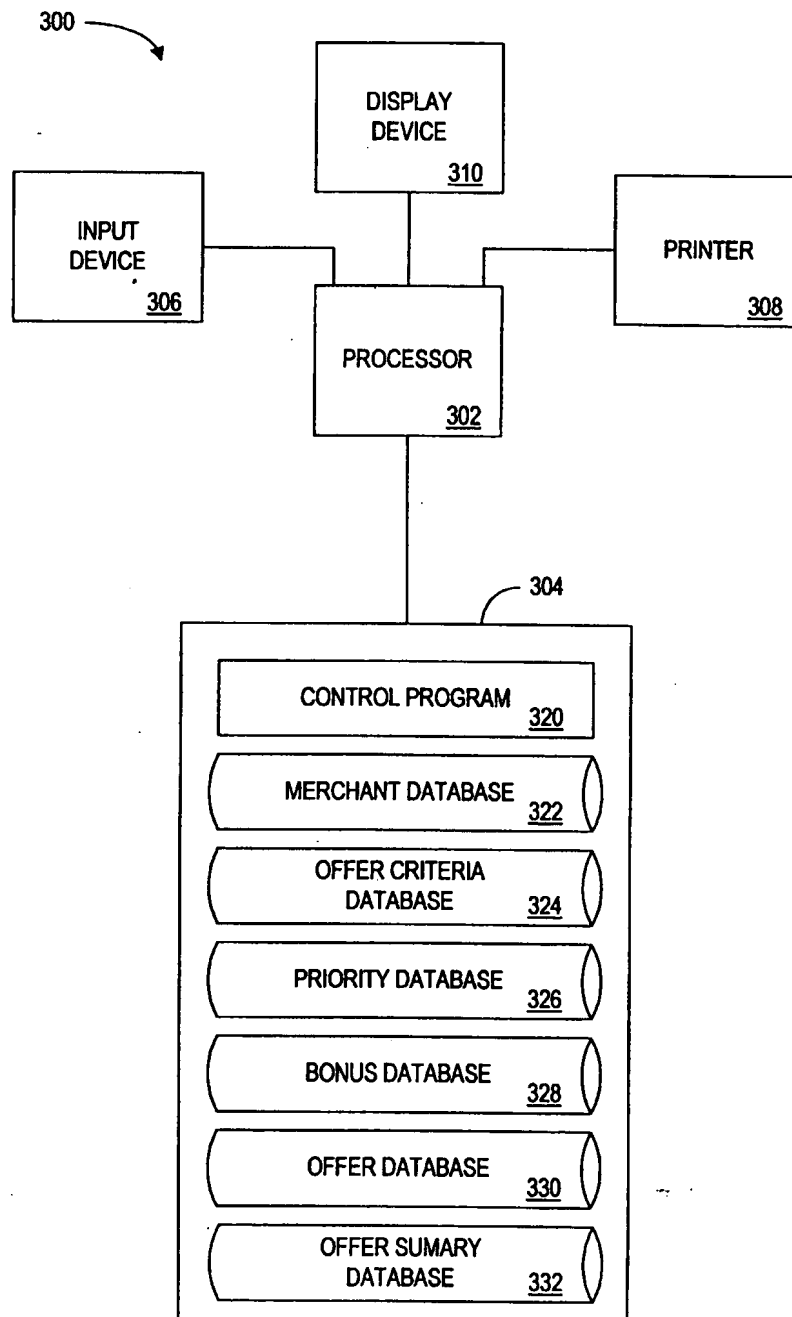


FIG. 3

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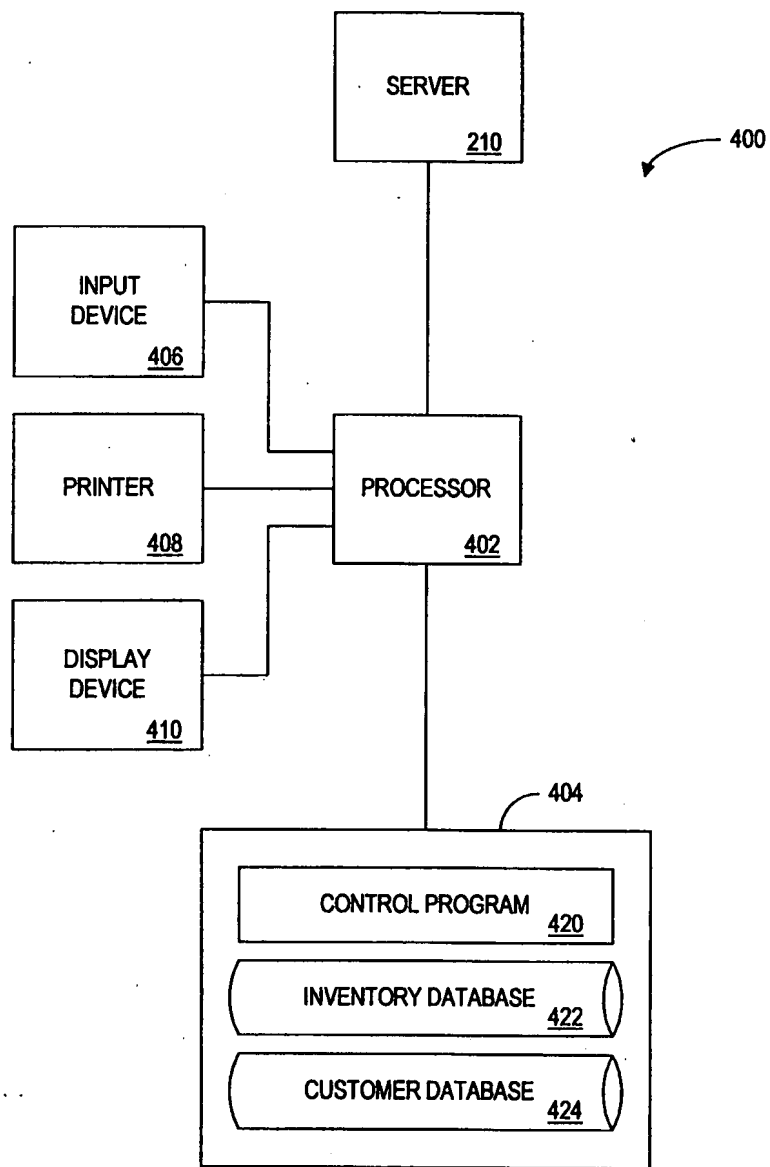


FIG. 4

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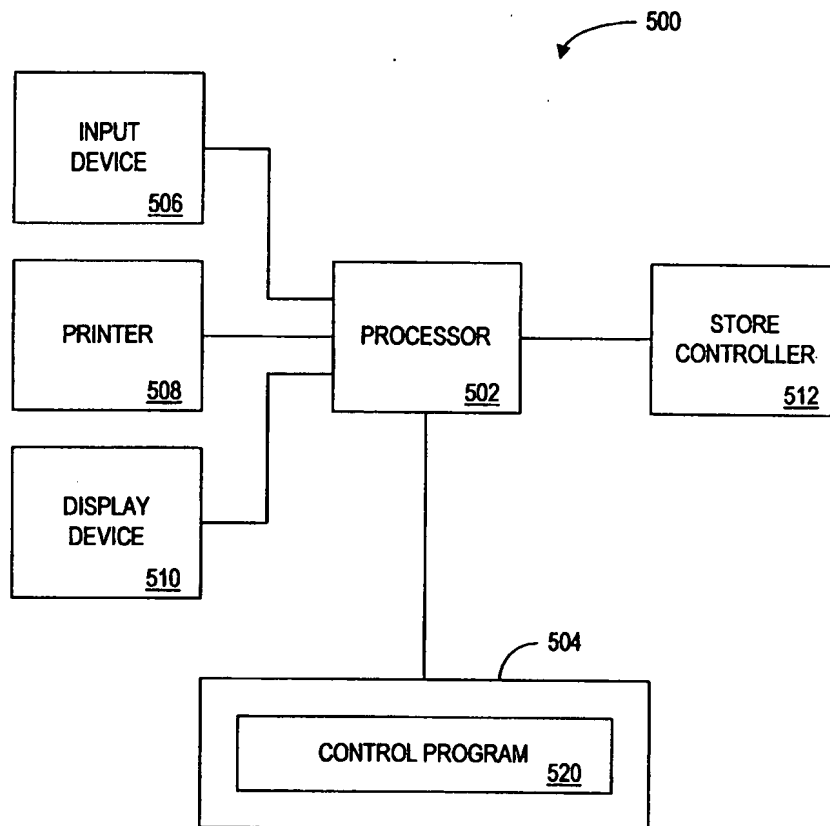


FIG. 5

600

MERCHANT IDENTIFIER	NAME	ADDRESS	SIC CODE	BILLING INSTRUCTIONS
620	622	624	626	628
M0001	CORP. X	123 MAIN ST. CITY, USA	1111	BILL TO MAILING ADDRESS
M0002	STORE Y	8910 RIVER PL. SUBURB, USA	2222	BILL TO 1 MAIN ST. NOWHERE, USA
M0003	OUTLET Z	248 STATE HWY. TOWN, USA	3333	NONE

602

604

606

AMOUNT OWED	PAYMENT DUE DATE	BUDGET AMOUNT REMAINING	FROZEN PORTION	PRIORITY
630	632	634	636	638
\$807.00	11/10/99	\$893.00	\$112.00	A
\$350.00	11/22/99	\$50.00	\$18.00	B
\$0.00	NONE	\$1,000.00	\$0.00	A

FIG. 6

700

MERCHANT IDENTIFIER M0001 CORP. X				702
SOLICITING MERCHANT IDENTIFIER 720	WILL OUTPUT FOR THE SOLICITING MERCHANT 722	FEE TO OUTPUT 724	PRIORITY 726	
M0002	YES	\$1.00	2	
M0003	YES	-	1	

704
706

FIG. 7

800

CRITERIA IDENTIFIER 822	OUTPUTTING MERCHANT IDENTIFIER 824	REQUIRED PURCHASE PRICE AT OUTPUTTING MERCHANT 826	TIME OF TRANSACTION AT OUTPUTTING MERCHANT 828	BONUS IDENTIFIER 830	SOLICITING MERCHANT 832
C0001	M0003	> \$20	ANY	D0004	M0001
C0002	M0003	ANY	ANY	D0003	M0003
C0003	M0001	> \$10	WEEKDAYS BEFORE 5:00 PM	D0001	M0002
C0004	M0002	ANY	SATURDAY & SUNDAY	D0004	M0001

802

804

806

808

FIG. 8

900

RULE IDENTIFIER 920	RULE IS ACTIVE WHEN 922	PRIORITIZATION 924
R001	CURRENT TIME > 7:00 PM	MERCHANT CLASS = RESTAURANT: PRIORITY = 1 MERCHANT CLASS ≠ RESTAURANT: PRIORITY = 2
R002	ALWAYS	MERCHANT CLASS = MERCHANT CLASS OF OUTPUTTING MERCHANT: PRIORITY = 1 MERCHANT CLASS ≠ MERCHANT CLASS OF OUTPUTTING MERCHANT: PRIORITY = 2
R003	CURRENT TIME - MOVIE START TIME < 10 MINS.	MERCHANT CLASS = MOVIE THEATER: PRIORITY = 1 MERCHANT CLASS ≠ MOVIE THEATER: PRIORITY = 2
R004	CURRENT MONTH = JUNE, JULY OR AUGUST AND CURRENT TEMPERATURE > 80°F	MERCHANT CLASS = ICE CREAM SHOP: PRIORITY = 1 MERCHANT CLASS ≠ ICE CREAM SHOP: PRIORITY = 2

902

904

906

908

FIG. 9

1000

BONUS IDENTIFIER 1020	BONUS VALUE 1022	SOLICITING MERCHANT IDENTIFIER 1024	TIME OF TRANSACTION AT SOLICITING MERCHANT 1026	REQUIRED PURCHASE PRICE AT SOLICITING MERCHANT 1028	REQUIRED ITEM(S) TO PURCHASE 1030
D0001	10% OFF	M0002	ANY	> \$5.00	NONE
D0002	\$15 OFF	M0003	ANY	NONE	ITEM # 12345678
D0003	1/2 OFF SECOND PURCHASE PRICE, UP TO \$40	M0003	MONDAY - FRIDAY	NONE	NONE
D0004	5% OFF	M0001	SATURDAY, 9:00 - 12:00	> \$10.00	NONE

1002 1004 1006 1008

FIG. 10

1100

BONUS IDENTIFIER D0001				1102
BONUS VALUE 10% OFF				1104
MERCHANT IDENTIFIER 1120	TIME OF TRANSACTION 1122	REQUIRED PURCHASE PRICE 1124	REQUIRED ITEM(S) TO PURCHASE 1126	
M0002	ANY	ANY	ITEM # 12345678	
M0001	SUNDAY MORNING	> \$10.00	NONE	
M0003	WEEKDAYS BEFORE 5:00 PM	ANY	NONE	

1106

1108

1110

FIG. 11

1200

OFFER IDENTIFIER 1220	BONUS IDENTIFIER 1222	CRITERIA IDENTIFIER 1224	OUTPUTTING MERCHANT 1226	SOLICITING MERCHANT 1228	CUSTOMER IDENTIFIER 1230	OFFER STATUS 1232	VALIDITY PERIOD 1234
11001	D0003	C0001	M0003	M0003	NONE	REDEEMED 3/2/99	3/1/99 - 3/29/99
11002	D0001	C0004	M0002	M0002	1111-1111- 1111-1111	UNREDEEMED	3/20/99 - 4/20/99
11003	D0004	C0004	M0002	M0001	2222-2222- 2222-2222	EXPIRED 1/4/99	1/1/99 - 1/4/99

1202
1204
1206

FIG. 12

1300

BONUS IDENTIFIER	NUMBER OF OFFERS PROVIDED	NUMBERS OF OFFERS REDEEMED	NUMBER OF OFFERS UNREDEEMED	NUMBER OF OFFERS EXPIRED
1302	1322	1324	1326	1328
D0001	24	12	3	9
D0002	310	200	100	10
D0003	82	10	20	52
D0004	8	10	1	6

1304

1306

1308

FIG. 13

1400

INVENTORY IDENTIFIER	DESCRIPTION	PRICE	QUANTITY REMAINING
1420	1422	1424	1426
12345678	MEN'S SHOES	\$150.00	32
12345679	TUBE SOCKS	\$8.50	185

1402

1404

FIG. 14

1500

CUSTOMER IDENTIFIER 99123		1502
DEAN GREEN		1504
ADDRESS 5500 MAIN ST CITY, USA		1506
CREDIT CARD NUMBER 1111-2222-3333-4444		1508
TRANSACTION IDENTIFIER 1520	MERCHANT IDENTIFIER 1522	DATE AND TIME 1524
12345678901	M0001	3/7/99 10:06 AM
12345678909	M0002	3/12/99 1:14 PM
		PURCHASE PRICE 1526
		\$72.83
		\$8.49

1510

1512

FIG. 15

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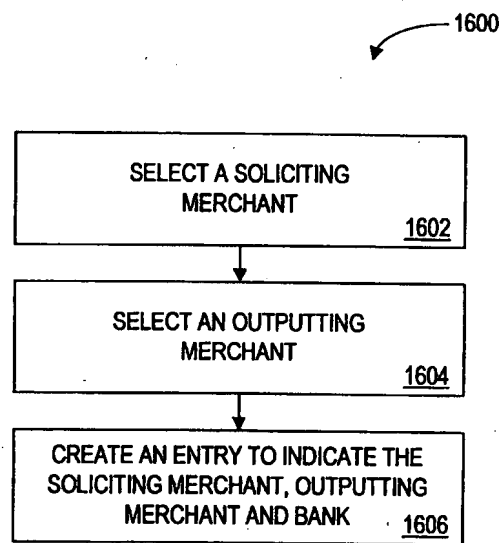


FIG. 16A

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1620

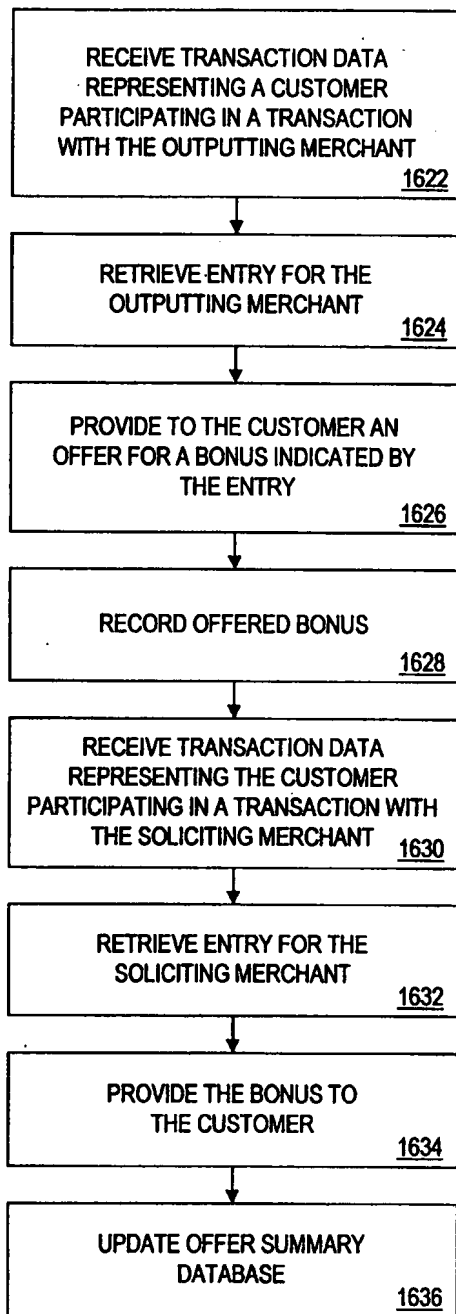


FIG. 16B

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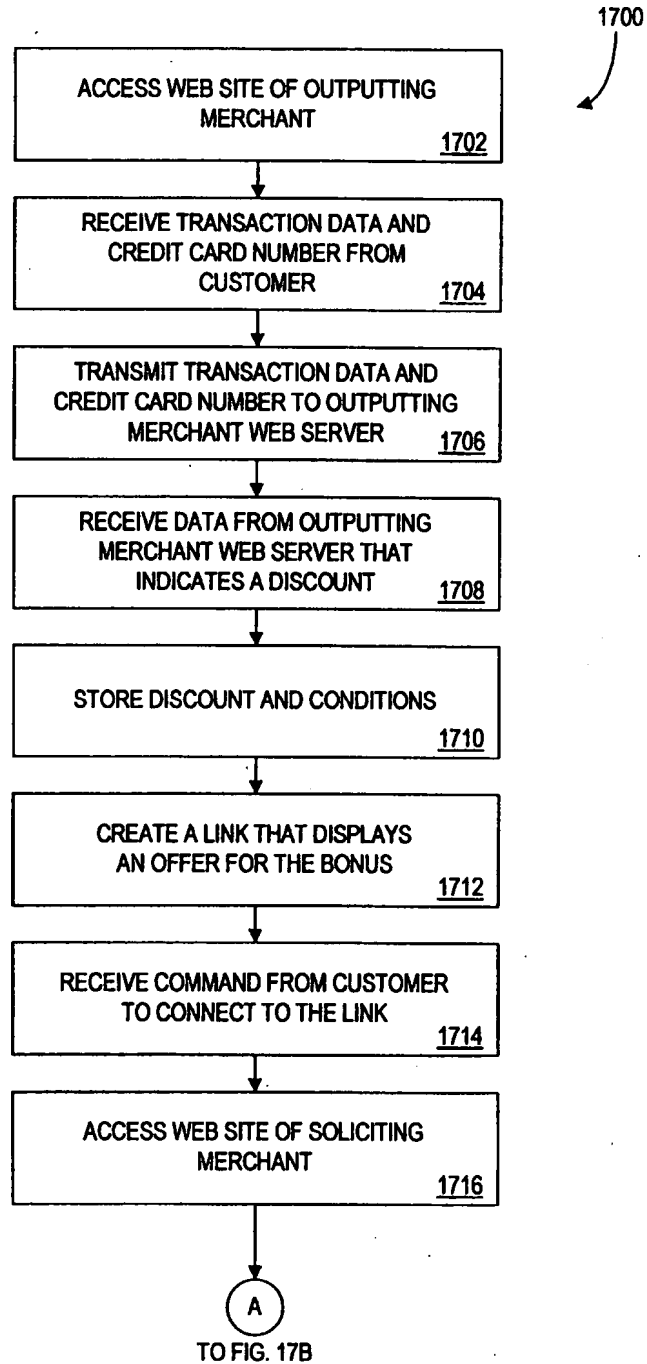


FIG. 17A

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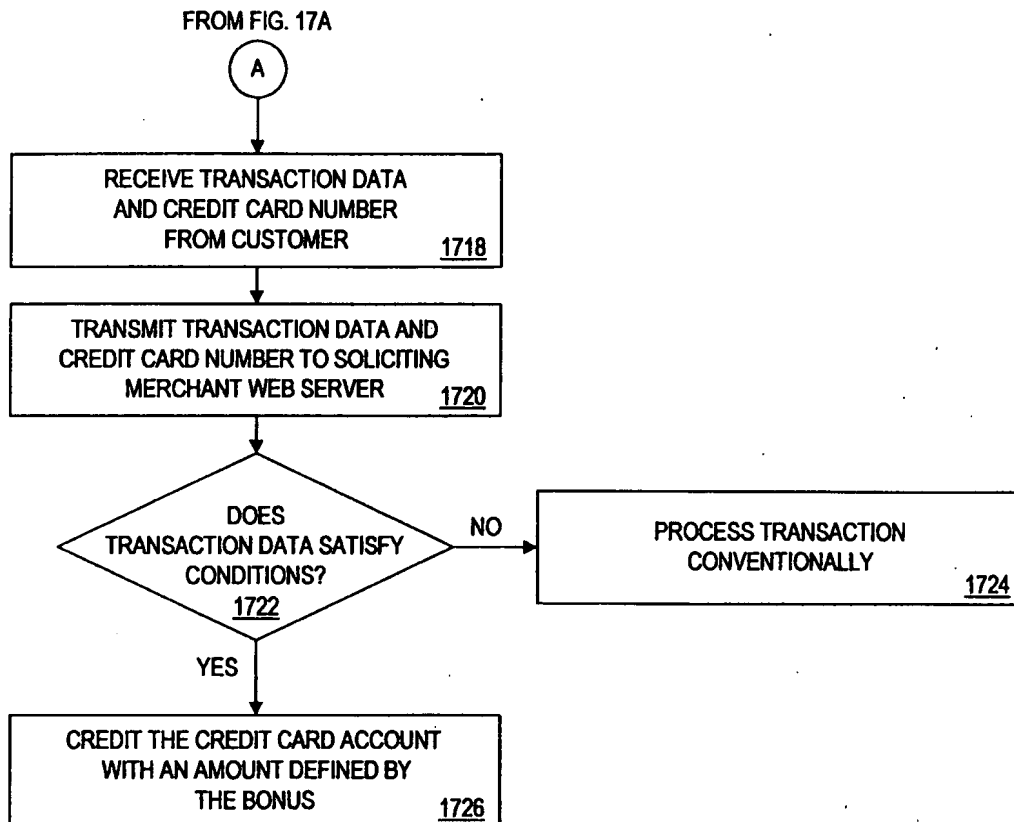


FIG. 17B

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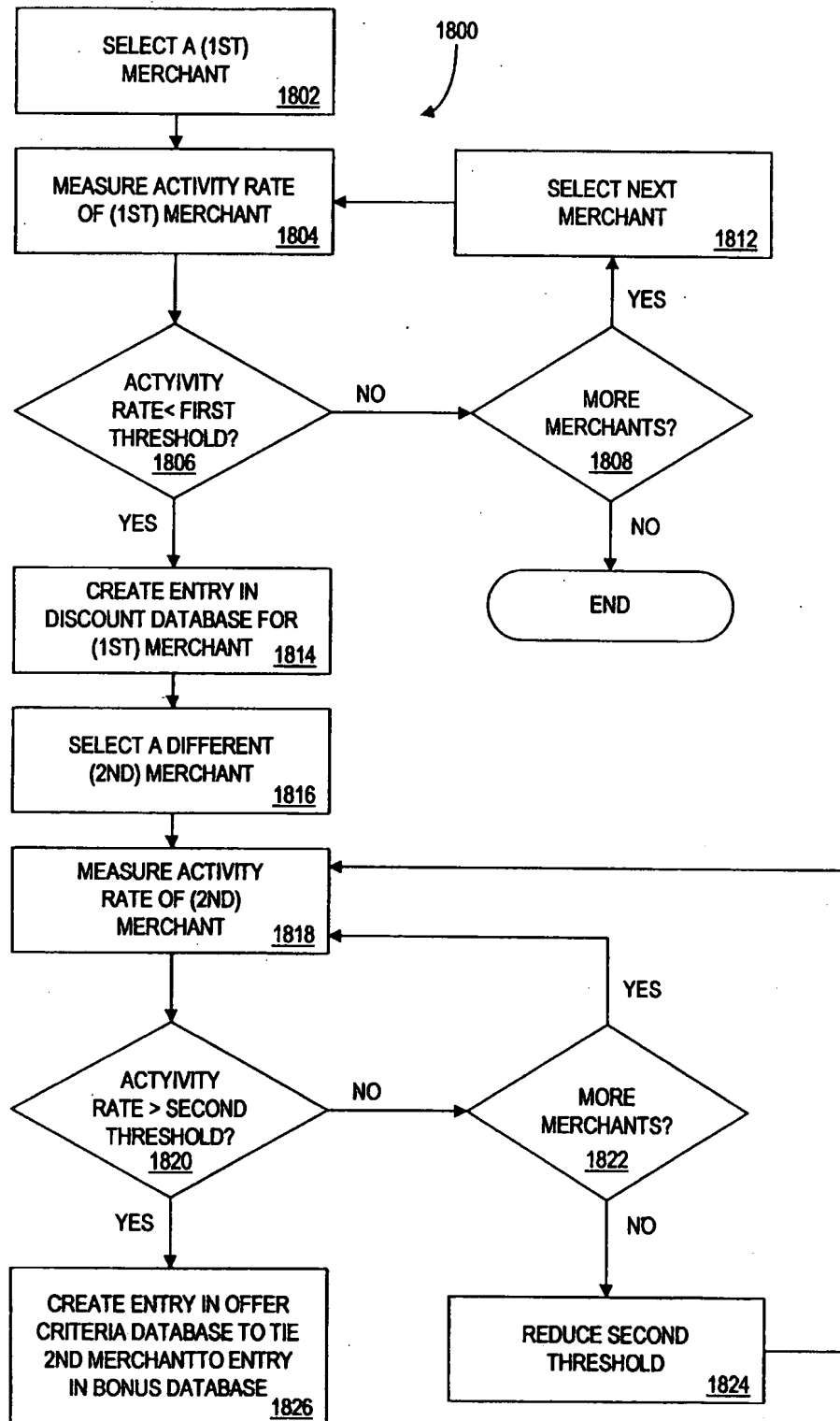


FIG. 18

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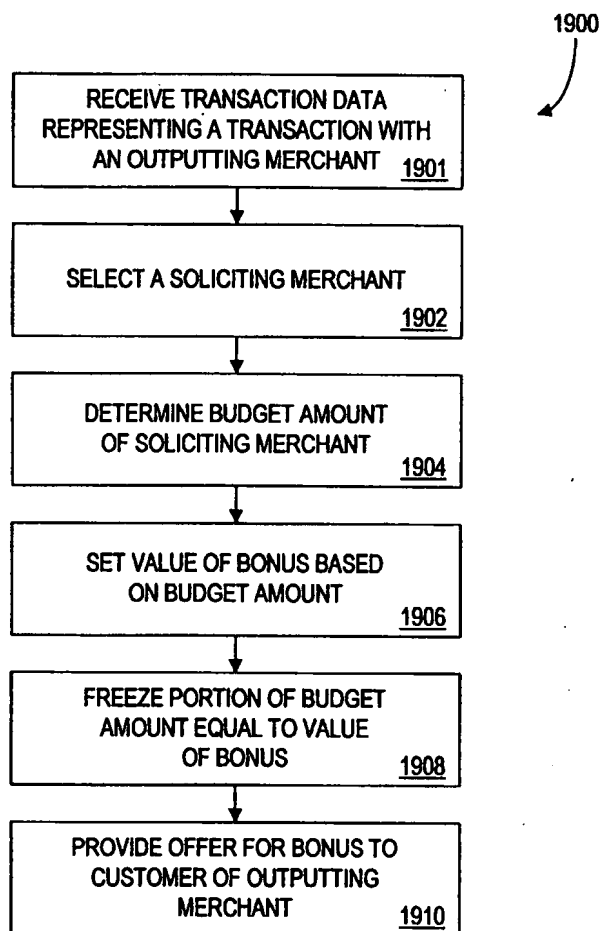


FIG. 19A

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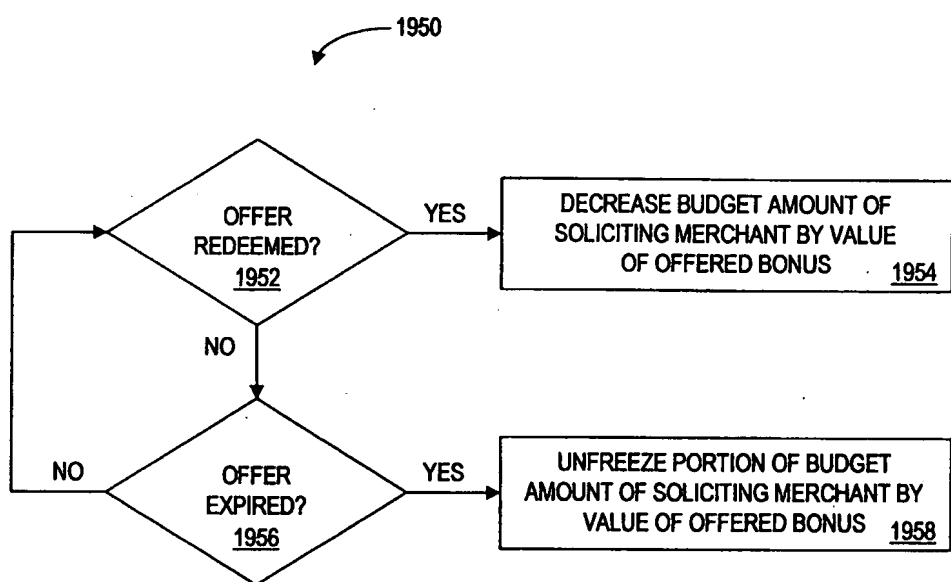


FIG. 19B

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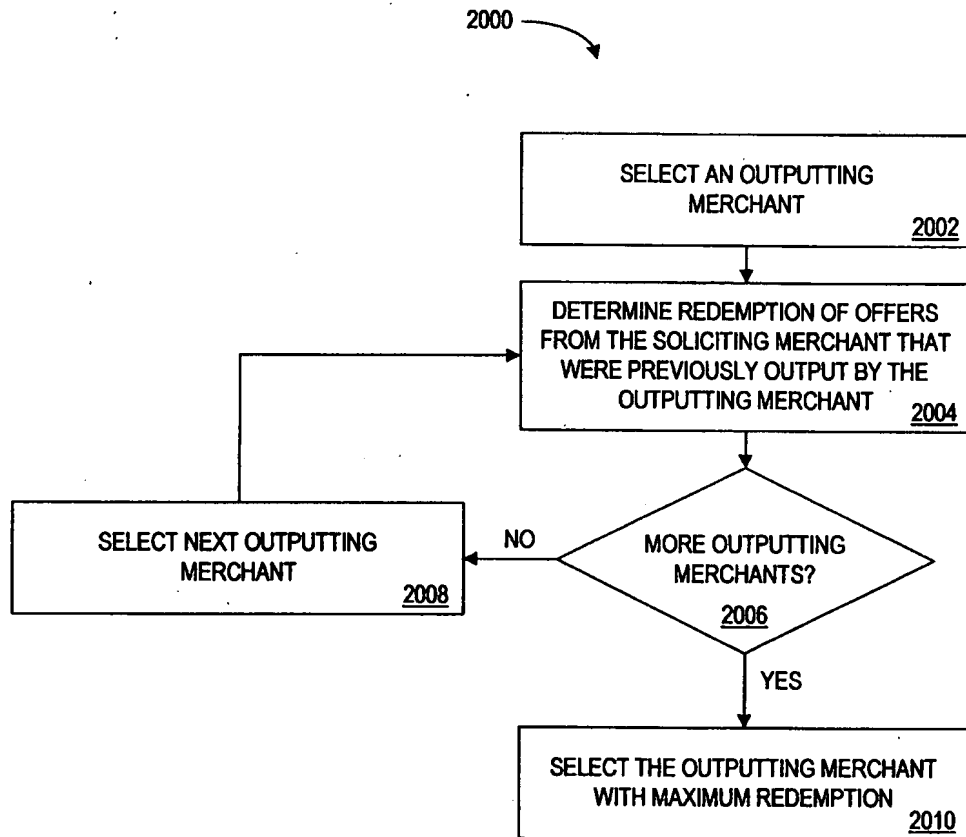


FIG. 20

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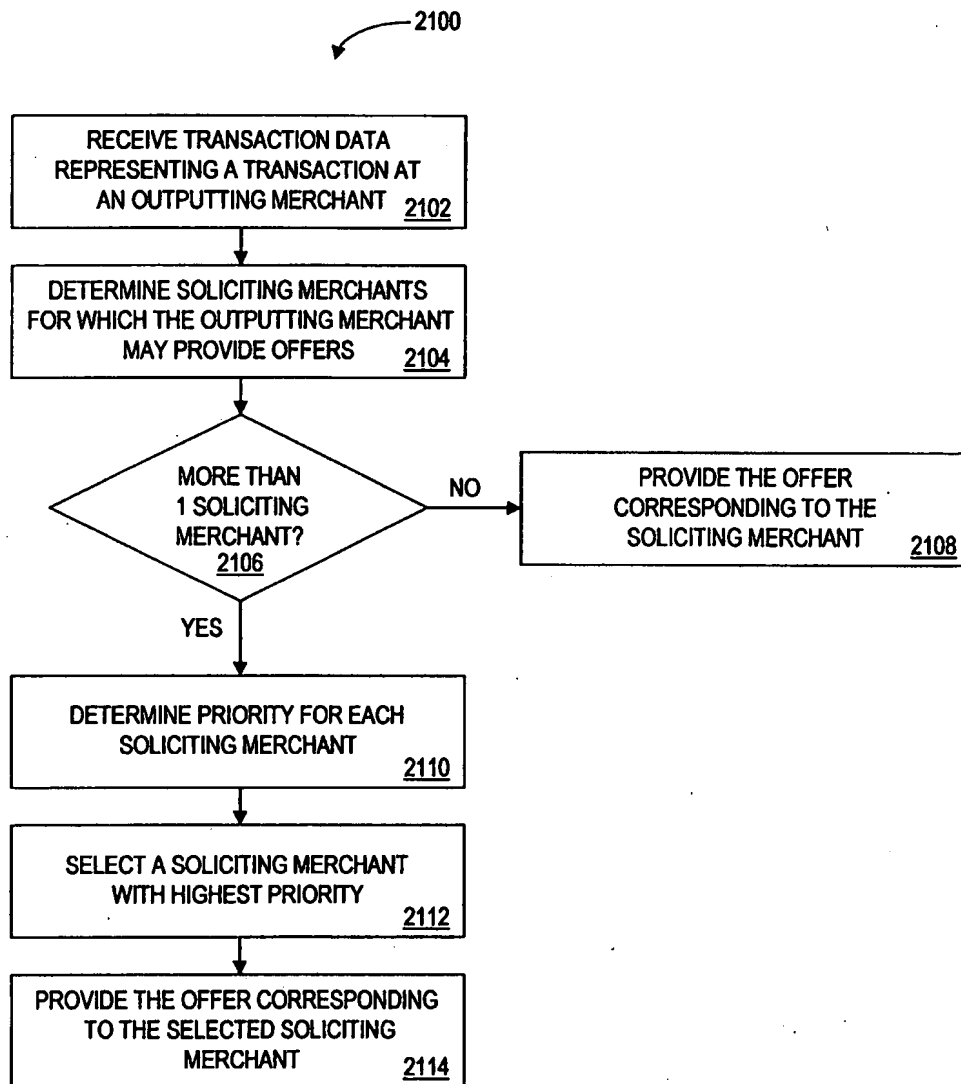


FIG. 21

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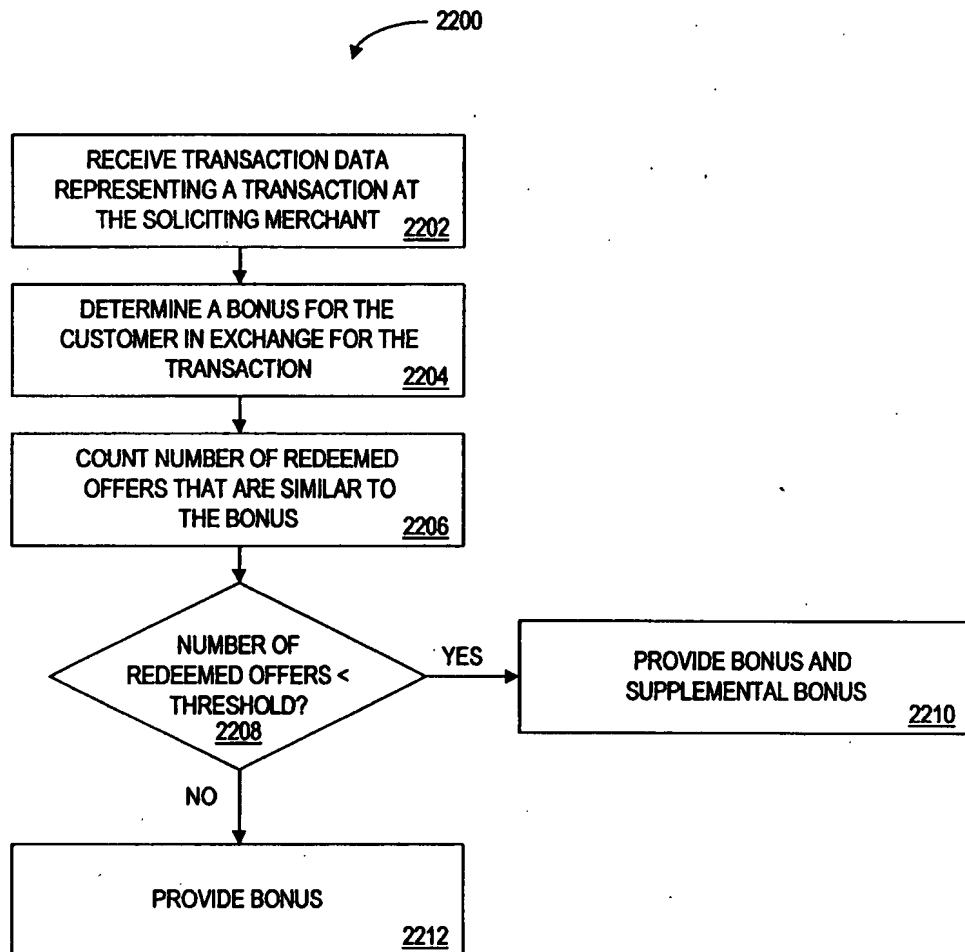


FIG. 22

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/22060

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 06050 A (FIRST DATA CORP) 12 February 1998 (1998-02-12) abstract claim 1 page 1, line 4 - line 12 page 2, line 18 - line 28 page 3, line 15 -page 4, line 7 ---	1-77
X	WO 98 28699 A (MERIDIAN ENTERPRISES INC) 2 July 1998 (1998-07-02) abstract page 1, line 10 -page 2, line 23 --- -/--	1-77



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

10 February 2000

Date of mailing of the international search report

16/02/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
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Fax: (+31-70) 340-3016

Authorized officer

van der Weiden, A

INTERNATIONAL SEARCH REPORT

Intern 1st Application No
PCT/US 99/22060

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 5 537 314 A (KANTER MARK W) 16 July 1996 (1996-07-16) abstract column 6, line 49 - line 67 column 7, line 25 - line 40 column 8, line 50 -column 9, line 30 column 16, line 35 -column 17, line 22 claim 1</p> <p>-----</p>	1-77

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. Application No

PCT/US 99/22060

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9806050 A	12-02-1998	AU 3969197 A EP 0978076 A	25-02-1998 09-02-2000
WO 9828699 A	02-07-1998	AU 3497397 A CA 2210218 A	17-07-1998 24-06-1998
US 5537314 A	16-07-1996	NONE	

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